Applying Registry Data to Trauma Designation

The New Application

Application Revision Workgroup

- Joanne Miller, SW WA Medical Center (DOH contractor on project)
- Denise Hahn Taylor, SW WA Medical Center
- Louise LaForest, Mary Bridge
- Debbi Mitchell, Auburn Medical Center
- Kim Dokken, Tri Cities Trauma Service
- Lori Taylor, Spokane Trauma Service
- Chris Martin, Harborview Medical Center
- Kathy Schmitt, DOH
- Mary Rotert, DOH

Goals of the Revision

- Simplify application process
- Make the application process useful/meaningful to both hospitals and surveyors
- Incorporate use of trauma registry data
- QI focus

Streamlined Application

- Less paper to submit trauma services will add to current application on file
- Only a couple of new policies required otherwise required to submit changes from previous application
- Pediatric combined with General no longer separate application/survey process

New Policies/Information Required

- Process for relaying ISS information back to transferring hospital and referring providers
- Description of how trauma participation grants have been utilized
- Policy for pain management
- Policy for assessment and intervention for patients admitted with positive BAC or drug tox
- Summary of trauma QI audit filter results and recommendation for changes
- Develop and describe a process to improve prehospital completion and timely submission of run sheets

Developed Trauma Registry Reports

- Designated trauma services will use their registry data to complete the application
- Data-driven review of performance
- Assures ability to extract data (report writing) from each facility.
- Emphasis shift from providing data to DOH to using data at the trauma service level.

Facility Profile

(All Level III as a sample)

Total number of trauma registry patients	3364
Number of full trauma team activations	308
Number of modified trauma team activations	704
Number of major trauma patients (ISS>=16)	460
Number of major trauma patients (ISS>=16) transferred out of ED to another acute care facility	129
Number of major trauma patients (ISS>=16) transferred out after admission	92
Number of major trauma patients transferred in	22
# of major trauma patients who went from ED to OR	84
# of major trauma patients who went from ED to ICU	125

Trauma Team Documentation to Submit with Application

"Trauma registry report in data table format (for year 2000) for patients with full activations (and modified activations if surgeon is required to respond by facility guidelines) including hospital index, patient ID number, surgeon response times, ISS, and emergency department disposition."

Sample Data Table (For Full Activations)

Hospital Index	Patient ID	Surgeon Response	ISS	Emergency Department
		Time (Minutes)		Disposition
186982	606285	75	4	OR
990013090	14991	8	5	Ward/ Floor
5546155	88848	31	19	Other Acute Care Facility
990065064	105203	4	43	Other Acute Care Facility
41817455	13409	30	17	ICU/ CCU
1133356467	32047	20	26	Operating Room
326585402	5910024	24	26	ICU/ CCU
9901787005	310524	0	3	Ward/ Floor
990179556	362182	0	2	ICU/ CCU

Trauma Team Activation Documentation to Submit with Application

"Trauma registry report in data table format (for year 2000) for patients with 1st systolic blood pressure < 90 or 1st heart rate/pulse rate >120 including hospital index, patient ID number, trauma team activation, level of response, injury as text, age, ISS, ED LOS, ED Disposition, & Hospital Disposition. Please mark confidential."

Sample Data Table for Patients with 1st Systolic Blood Pressure < 90 OR 1st Heart rate/Pulse Rate > 120

	Patient	Trauma	Level of	Patient		ED LOS	ED	Hospital
Hospital Index Number/Injury Text	ID	Activation	Response	Age	ISS	Minutes	Disposition	Disposition
114052333	853047	No	Trauma	1	16	35	Other Acute	Other Acute
Injury Description:			Consult				Care Facility	Care Facility
[852.40] Extradural hemorrhage, closed								
3250515352	71481	No	None	37	9	181	Operating	Home, No
Injury Description:							Room	Assistance
865.00 SPLEEN INJURY CLOSED laceration								
865.02 SPLEEN CAPSULAR TEAR								
856.02 RUPTURED SPLEEN								
863.41 ASCENDING COLON hematoma/contusion								
9900915064	105823	Yes	Full Trauma	23	43	32	Other Acute	Other Acute
Injury Description:			Response				Care Facility	Care Facility
[854.05] Intracranial injury NEC, LOC >24 hrs with no return								
[863.40] Colon injury NOS, closed								
[864.05] @ <non-trauma code=""></non-trauma>								
[865.02] Spleen capsular tear, closed								
[868.04] Retroperitoneum injury, closed								
[818.0] Fx arm multiple/NOS, closed								
[823.10] Fx upper end tibia, open								
[873.0] Laceration of scalp								
[873.49] Laceration of face other and multiple sites NEC								
[958.4] @@Traumatic shock								

Emergency Department Documentation to Submit with Application

"Trauma registry report in data table format (for year 2000) for patients with ISS≥9 including hospital index, patient ID, age, ED LOS, ED disposition, hospital disposition. Please mark confidential."

Sample Emergency Department Report (Patients with ISS >= 9)

He en:tel	Dations	Dations	ED LOC	Consumo a por Domontos o est	Henrital Diamonitian
Hospital	Patient	Patient	ED LOS	Emergency Department	Hospital Disposition
Index	ID	Age	(minutes)	Disposition	
4182407	120998	2	156	Ward/ Floor	Home, No Assistance
73852	3452141	15	226	Ward/ Floor	Home, No Assistance
110833	118350	78	264	Ward/ Floor	Skilled Nursing Facility
1125633570	373037	41	203	Ward/ Floor	Home, No Assistance
80499822	393869	29	135	Other Acute Care Facility	unk
99042300028	60881	52	184	ICU/ CCU	Home, No Assistance
990230111	397331	84	190	Ward/ Floor	Skilled Nursing Facility
3261393	700091	90	315	Other	Home, Health Care
99023097	77173	86	135	ICU/ CCU	Expired
99004492	263678	78	205	Ward/ Floor	Skilled Nursing Facility
37827152	100001	54	160	Ward/ Floor	Home, Rehab
11045533	850047	1	35	Other Acute Care Facility	Acute Care Facility
99004303	121444	56	155	Other Acute Care Facility	Acute Care Facility
19176722	372175	87	170	Ward/ Floor	Skilled Nursing Facility
11290656	16220	53	229	ICU/ CCU	Home, No Assistance
99500289	436579	33	205	Ward/ Floor	Home, No Assistance
5546592	8888	43	125	Other Acute Care Facility	Acute Care Facility
11293604	159168	46	313	Ward/ Floor	Home, No Assistance

Pediatric Trauma Care Policy

"For trauma services not designated as pediatric trauma services, a trauma registry report in data table format listing pediatric patients (age 0-14) who were admitted to and/or observed on the general ward/floor and those who were admitted to and/or observed in the ICU."

Sample Data Table for Pediatric Patients in Non-Pediatric Trauma Services

Hosp. Index	Patient ID	Age	Mechanism	ISS	ICU LOS	Hosp. LOS	Hospital Disposition
4180457	1209778	2	Child Abuse	9		6	Home, No Assistance
365765	59971208	13	mv	5		1	Home, No Assistance
9901060	9902598	5	Sports or Play Injury	4		1	Home, No Assistance
18874497	37247105	14	Firearms	4		4	Home, No Assistance
9901441	99048171	9	Sports or Play Injury	4		1	Home, No Assistance
80627780	3947209	12	Fall	9		2	Home, No Assistance
73587882	73522878	9	Fall	9		2	Home, No Assistance
6572218553	61233208	0	Fall	4		3	Home, No Assistance
99024447	990080	9	Motorcycle	9		1	Home, No Assistance
6572219121	61219209	3	Sports or Play Injur	1	1	27	Home, No Assistance
32648417	81640012	13	Fall	4		1	Home, No Assistance
99030447	9903068	9	Pedestrian/Vehicle	5		1	Home, No Assistance
90111212	6432793	14	Fall	5		2	Home, No Assistance
9901708	4740021	10	Motor Vehicle	3		3	Home, No Assistance
99017068	1051217	0	Burn	1		2	Home, No Assistance
11091378	8511142	0	Child Abuse	4		4	Home, No Assistance
99010243	5198475	13	Fall	4		1	Home, No Assistance
11096145	4678362	14	Fall			4	Rehab Facility
6752529	639797	0	Fall	10		1	Acute Care Facility
1113118	52685330	12	Bicycle	4		2	Home, No Assistance

Inter-hospital Transfers Documentation to Submit With Application

 Trauma registry report in data table format (for year 2000) for patients with ISS ≥ 9 and who were admitted to the hospital and subsequently transferred to another acute care facility.

Sample Data Table for Inter-Hospital Transfers:

HOSPITAL <u>INDEX</u>	Patient II <u>Number</u>	ISS_	LOS	Receiving <u>Facility</u>	Receiving <u>ISS</u>
01022005	834456	9	6.0	Harborview	9
INJ_TXT:					
[891.2] Lac	eration of le	g with t	endon		
[916.0] Abı	rasion leg				
[823.32] Fx	shaft fibula	w/tibia,	open		
2355614	383979	10	1.0	Harborview	16
INJ TXT:					
[852.06] Sul	barachnoid h	emorrh	age, LOC	unspecified durat	tion
[847.0] Spr				1	
	ain lumbar r	egion			

Trauma Registry Documentation to Submit with Application

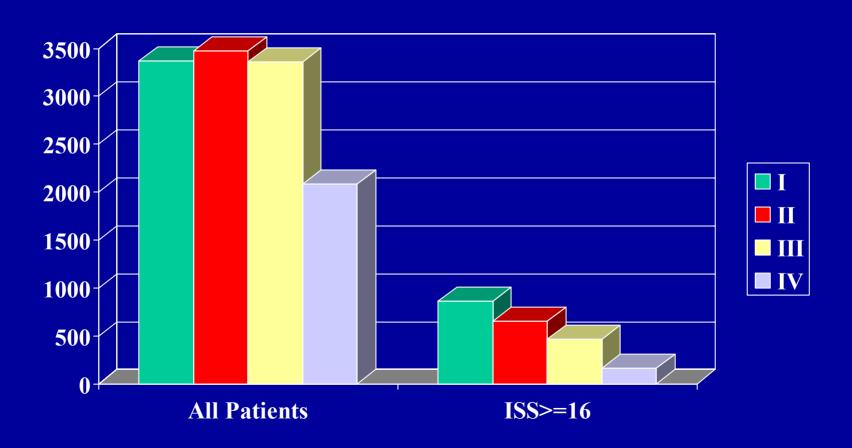
- "Standard demographics reports (for year 2000) for the following age groups: 0-14, 15-24, 25-64, 65+."
- "Describe what your facility is doing to improve data quality (ie., data completeness, suitability for TRISS, etc.)"

Demographics Report (Sample) Report generated on 03/05/2001 10:07 EDA Date: From 01/01/1999 to 12/31/1999 Query is LEVEL_1_AND_2

	Number	%
TOTAL PATIENTS	6730	100.0
SUITABILITY FOR TRISS ANALYSIS		
included	5314	79.0
excluded	1416	21.0
TYPE OF INJURY		
blunt	5619	83.5
penetrating	654	9.7
other	457	6.8
DISCHARGE STATUS		
live	6142	91.3
die	412	6.1
not given	176	2.6

TYPE OF ADMISSION		Number	%
transfer		2444	36.3
direct		4280	63.6
unknown		6	0.1
CAUSE OF INJURY			
motor vehicle		1996	29.7
motorcycle		245	3.6
pedestrian		298	4.4
gunshot		303	4.5
stabbing		266	4.0
fall		1871	27.8
other		1748	26.0
unknown		3	0.0
PATIENT SEX			
male		4591	68.2
female		2139	31.8
not given		0	0.0
TIME TO DEATH			
< 24 hours		248	60.2
>= 24 hours		164	39.8
unknown		0	0.0
	Washington State Department of Health		20

Trauma Patients (all) by Level 1999



Trauma Team Activations by Level

(ISS >= 16, Year=1999)

